SW Plus 2524 & SW Plus 2548

Xantrex Sine Wave Plus Inverter/Charger

Power Independence in a Small Package

Designed to provide homes with a completely independent power supply, the SW Plus 2.5 kW Inverter/Charger combines an inverter, battery charger and dual transfer switch in one package. Available in 24 and 48 volt versions, it offers continuous power output of 2.5 kW. The SW Plus provides AC power for household appliances and DC power to charge batteries. As part of an off-grid renewable power system, it converts all forms of renewable energy into utility grade household power.

The SW Plus can also be used as part of a backup power system to automatically provide AC power when utility power fails. For supplementary power, the inverter/charger can be programmed to automatically start and stop a generator, based on user needs. To save on utility bills, the SW Plus can also be programmed to switch to battery power from utility power during peak-rate periods. The SW Plus is not designed to sell power to the grid.

Product Features

- 2.5 kW continuous output of sine wave power (to 40º C)
- Huge surge (inrush current) capacity – up to 4 times rated output for starting large loads
- High capacity, multi-function battery charger provides accurate four stage re-charging and maintenance
- Smart Energy Management system controls utility and/or generator usage
- Non Volatile memory provides the SW Plus with the ability to save customized settings
- FCC Part B compliant means less potential interference with radio and telephone equipment
- Energy efficient with 95% peak efficiency and <20 watts of idle current (<2 watt in search mode)

Options

- Expandable – Two SW Plus inverters may be stacked for increased output in 120/240 VAC configuration (5 kW total)
- Matching AC and DC conduit boxes for code compliant installation
- Generator Start Module used to control two and three wire generators
- Auxiliary Load Module used to automatically start and stop auxiliary loads such as fans based on programmable voltage parameters
- Inverter Communications Adapter allows for remote connection to SW Plus via PC
- An additional Inverter Control Module (ICM built-in to SW Plus) may be installed for remote operation and monitoring of inverter/charger

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Electrical Specifications

	SW Plus 2524	SW Plus 2548
AC Input Voltage (nominal)	120 VAC	120 VAC
AC Input Voltage Range, adjustable	80-150 VAC	80-150 VAC
AC Input Current	60 amps AC pass through / 20 amps AC charging	60 amps AC pass through / 20 amps AC charging
Continuous Power @ 40 °C	2500 watts	2500 watts
Efficiency (peak in Inverter mode)	95%	95%
Efficiency (Invert mode)	Over 90% from 120W to 2000W	Over 90% from 160W to 2500W
Inverter Voltage Regulation	± 3%	± 3%
Frequency (Nominal ± 0.04% Crystal Controlled) Inverter mode	60 Hz	60 Hz
Continuous Output Current (@ 25 °C)	21 A rms	21 A rms
Current Surge Capability@ 25 °C		
5 Sec Rating	80 A rms	80 A rms
Over current trip point	125 A peak	175 A peak
Inverter Voltage THD (Resistive load)	< 5%	< 5%
Automatic Transfer Relay	60 A rms	60 A rms
DC Input Voltage (Nominal)	25.2 VDC	50.4 VDC
DC Input Voltage Range	22-32 VDC	44-64 VDC
DC Current at Rated Power (Inverter mode), internal temperature stabilized	120 amps DC	60 amps DC
Idle Consumption (Typical at full voltage)	< 16 watts	< 20 watts
Search Mode Consumption (Typical at full voltage)	< 2 watt	< 2 watt
Continuous Charge Rate@ 120VAC input (See Note 1 below)	70 amps DC	40 amps DC

Mechanical Specifications

Operating Temperature Range	
Unit will meet specifications	32 °F to 77 °F (0 °C to 25 °C)
Unit may not meet specifications	-13 °F to 140 °F (-25 °C to 60 °C)
Storage	-67 °F to 284 °F (-55 °C to 140 °C)
Enclosure Type	Indoor, ventilated, Galvaneel chassis with powdercoat finish
Unit Weight	105 lb (48 kg)
Shipping Weight	111 lb (50 kg)
Inverter Dimensions (H x W x D)	15" x 22.5" x 9" (38 cm x 57 cm x 23 cm)
Shipping Dimensions (H x W x D)	20" x 27" x 15" (52 cm x 69 cm x 40 cm)
Mounting	Wall Mount/Shelf

Features

Forced Air Cooling	Standard variable speed brushless DC fans
Multi-stage charging	Bulk, absorption, float/ silent, and equalize
Control Panel	Standard built-in, two line, backlit, alphanumeric LCD with 8 LED indicators
Battery Temperature Sensor (BTS)	BTS - standard remote battery temperature sensor for increased battery performance

Options

Generator Start Module (GSM)	Automatic generator control system for two and three wire start AC and DC generators
Auxiliary Load Module (ALM)	User adjustable voltage controlled signal relays for control of loads or charging sources
Remote Inverter Control Module (ICM)	Optional full function remote control with LCD and LED indicators
RC8	Optional remote on/off with indicator
Stacking Interface (SWI)	Optional cable for series stacking of two identical SW Plus units for 120/240 VAC output
DC Conduit Box (DCCB)	Optional side mount conduit box for code-compliant DC wiring connections (USA)
DC Conduit Box Fused (DCCB-F)	Optional side mount conduit box for code-compliant DC wiring connections with fuse (Canada)
AC Conduit Box (ACCB)	Optional side mount conduit box for code-compliant AC wiring (bypass/disconnect circuit breakers)

Common Specifications

Waveform	Sine wave, 34 to 52 steps per cycle
Load Sensing (Inverter Mode)	Adjustable 8 to 248 watts (8 watts default)
Listings	CSA listed to UL 1741 and CSA107.1 FCC Class B

Note 1: This is a continuous charge current rating. The peak charge current is higher, particularly before the unit has warmed up. Peak charge current will vary as a function of temperature and the AC input voltage.
Specifications subject to change without notice.